

3772

D. E. J. SHEVEY,

Drag Cht. No. 122 92

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY State: Morth Carolina DESCRIPTIVE REPORT. grafhoneet No. 3772 Ehemasle, Croatan & 1915

377N

COAST AND GEODETIC SURVEY

Dr.E.Lester Jones, Superintendent.

Survey on the Albemarle, Croatan and Roanoke Sounds?N.C.

TITLE, SHEET

For Hydrographic Sheet (1) 3772

Extending from near Oregan Inlet to Powells Point , including $1\frac{3}{4}$ miles of Pamiico Sound, all of Croatan and Roanoke Sounds and six miles North into Albemarle Sound, N.C.

Latitude 35° 46' to 36° 06'.

Longitude 75 32 to 75 50

Scale 1: 20000

From May 17th.to November 12th.1915.

Schooner Matchless.

O.W.Ferguson, Assistant, C.&.G.S.in Command

OBSERVERS.

O.W.Ferguson , Assistant .

James E. Marsh, Mate

Raymond P.Eyman , Aid.

Andrew C.Witherspoon , D.O.

Eugene S.Plunkett, D.O.

H.W.Godsey, C.W. and

H.H.Thomas, C.B.M.

LIBRARY

Place with descriptive report of hydrographic sheet No. 3772

U. S. COAST AND GEODETIC SURVEY Register No.3772

Drawing Section.

STATE NOrth Carolina
GENERAL LOCALITY Albemarle Sound (eastern part)
LOCALITY Roanoke and Croatan Sounds
Surveyed by O.W.Ferguson, J.E.Marsh, R.P.Eyman
Chief of party O.W.Ferguson
Date May - November 1915
Scale 1/20,000
Soundings in feet at mean low water *
Protracted by Field Party
Soundings plotted by Field Party
Inked by R. L. Rosenberg
Inked by R. L. Rosenburg Verified by R. L. Rosenbury

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COAST AND GEODETIC SURVEY

Dr.E.Lester Jones, Superintendent -.

Survey on the Albemarle, Croatan and Roanoke Sounds, N.C.

DESCRIPTIVE REPORT

For Hydrographin Sheet 23772

Extending from near Oregan Inlet to Powells Point including $1\frac{3}{4}$ miles of Pamlico Sound, all of Croatan and Roanoke Sounds and six miles North into Albemarle Sound, N.C.

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Longitude 75 32 to 75 50 -

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DESCRIPTIVE REPORT FOR HYDROGRAPHIC SHEET H. REGION ABOVE ROANOKE ISLAND N.C.

DESCRIPTION

This sheet examines all the depths in Croatan and Roanoke
Sounds together with the Southeastern part of Albemarle Sound and
the Northern part of Pamlico Sound .

TOWNS

Manteo and Wanchese, both on Roanoke Island, are the princip $\omega \nu$ towns. A daily line of steamers run from each of the towns to Elizabeth City.

OCCUPATION

The occupation of the people is Fishing, Farming, Lumbering, buying and selling.

SHORES

The shores are low, dispersed with stretches of sand and marsh; sand dunes are promment on the western side of Roanoke Sound and prevail generally between the sea and sound.

CREEKS

The creeks are small, but the waters are wide and shallow and indented with deep bayous and estuaries .

WATER

The northern portions of these waters are fresh, but the central somewhat brackish from the influence of Oregan Inlet and the southern portions more brackish,.

Fresh water of good quality is generaly found about the of sand dunes, and is abundent every where .

1

DESCRIPTIVE REPORT FOR HYDROGRAPHIC SHEET H.

REGION ABOVE ROANOKE ISLAND N.C.

The bottom is generally hard and sandy, and a small per cent of it is good holding bottom.

HARBOR S

The whole area portakes of the nature of a harbor, but the exposed areas become dangerous for small boats at times.

DAY MARKS AND LIGHTS_

On this sheet are the Croatan, Roanoke marshes and Bodies Island Light House, also the Red Beacon off Powells point; the Red middle gound beacon, head of Roanoke Island; the two Red Beacons into Manteo and the Blockade Shoal Beacon.

These with the day marks give the directions for navigating these shallow waters quite satisfactory. See sailing directions recently published, give the results of this survey.

CURRENTS

These are irregular, vaying with the wind and phases of the moon. When the winds and the tides are working together the current in Croatan Sound, past the Light House and Blockade Shoal, is strong.

_NAVIGATION _

boats ply in all directions, generally small boats, Fishing boats and small freighters, of 5 to 20 tins, propell by sail or by gasoline,

Vessels

drawing from 5 to 6 1/2 feet have very little trouble in making these runs.

Many barges are towed horthward through Croatan Sound, loaded with lumber, drawing eight feet.

A depth of 9 \frac{1}{2} feet can be Cassied

DESCRIPTIVE REPORT FOR HYDROGRAPHIC SHRET H. REGION ABOVE RCANOKE ISLAND N.C.

through croatan Sound, and eleven by alittle dredging .

SHIPPING

The principle commodities shipped out of here are lumber, fish, truck, farm products in moderate quantities and some cotton.

The articles shipped in are general, supplies, fertilizers, hay and gasoline.

SURVEY OF CROATAN AND ROANOKE SOUNDS, NORTH CAROLINA.

LIST OF GEOGRAPHIC POSITIONS TO ACCOMPANY HYDROGRAPHIC SHEET NO. 1 3772.

							The second secon				
	Character		ي المساوة المسا	Lati	tude	Longitude					
A	Ashby 1915, tripod.	٧.	35	52	727.3	7 5	40	3427			
4	Ashby 1909, small flag.		35	52	710.1	75	40	402.1			
A	Ballast Point 1915	٧.	85	54	1127.7	75	88	1223.8			
0	Red beacon off Powell Point	٧.	36	08	934.	75	47	76.			
	Baums Point 1915	٧.	35	55	281.4	75	39	851.			
0	Red beacon near Manteo	v.	35	55	157.	75	39	33.			
	Blockade Shoals beacon 1909	٧.	35	53	1919.3	75	43	580.1			
0	Bedie Island Light House 1909	٧.	35	49	204.	75	33	1229.7			
0	Flag on end of wharf		36	04	3 26.	75	44	901.			
0	Broad Creek 1909	٧.	35	51	1582.5	7 5	37	412.3			
0	Buntin Island, tripod	٧.	35	48	965.	75	40	32.			
0	Shed on outer end of Burnside wharf	٧.	35	54	255.	75	42	103.			
4	(same as Manteo Beacon 1909) Channel bush on dredged cut	٧.	35	55	1560.7	75	39	504.8			
A	Callaghan 1915	٧.	85	51	50.8	75	44	1254.6			
0	Cupela of Bodie Island Club house	٧.	35	48	1443.6	75	33	1324.8			
0	Red Beacon Near Manteo	V.	35	55	866.	75	39	864.			
	Manteo Court Houst 1909	(V)	35	54	1089.3	75	40	308.3			
0	Cupola of Bedie Island L.S.S. 1909	. ▼.	35	50	425.2	75	33	823.2			
0	Dare 1909	٧.	35	50	407.	75	44	68.8			
0	Wanchese House Double 1909		35	50	382.4	75	37	523.5			
0	Flag		35	50	1505.	75	39	1295.			
0	Duck 1909	V .	35	47	1327.3	75	35	590.5			
	Dur 1915	v.	35	58	62.	75	49	1226.			
Þ	Flag		35	51	416	75	39	1134.			
	Fleetwood 1909	٧.	35	53	170.2	75	45	23.9			
		Ashby 1915, tripod. Ashby 1909, small flag. Ballast Point 1915 Red beacen off Powell Point Baums Point 1915 Red beacen near Manteo Blockade Shoals beacen 1909 Beatle Island Light House 1909 Flag en end of wharf Broad Creek 1909 Bantin Island, tripod Shed on outer end of Burnside wharf (same as Manteo Beacen 1909) Channel bush on dredged cut Callaghan 1915 Cupela of Bodie Island Club house Red Beacen Near Manteo Manteo Court Houst 1909 Cupola of Bedie Island L.S.S. 1909 Pare 1909 Wanchese House Double 1909 Flag Duck 1909 Dur 1915 Flag	Ashby 1915, tripod. Ashby 1909, small flag. Ballast Point 1915 V. Red beacen eff Powell Point Baums Point 1915 V. Bedie Island Light House 1909 V. Bedie Island Light House 1909 V. Broad Creek 1909 V. Buntin Island, tripod Shed on outer end of Burnside wharf (same as Manteo Beacon 1909) Channel bush on dredged cut Callaghan 1915 V. Cupela of Bedie Island Club house V. Manteo Court Houst 1909 Cupola of Bedie Island L.S.S. 1909 V. Dare 1909 V. Dare 1909 V. Dur 1915 V. Dur 1915 V.	Ashby 1915, tripod. Ashby 1909, small flag. Ballast Point 1915 Red beacen off Powell Point Baums Point 1915 Red beacen near Mantee Red Beacen 1909 Red Broad Creek 1909 Red Broad Creek 1909 Red Beacen 1909 Red Beacen Near end of Burnside wharf Red Beacen Near Hantee Red Beacen Near Hantee Red Beacen Near Hantee Red Beacen Near Hantee Red Beacen Red Bedie Island Club house Red Beacen Red Bedie Island L.S.S. 1909 Ranchese House Double 1909 Flag Duck 1909 V. 35 Plag Duck 1909 V. 35 Flag Plag Plag So Flag Plag So Flag Pur 1915 V. 35	Ashby 1915, tripod. Ashby 1909, small flag. Ballast Point 1915 Red beacen eff Powell Peint Baums Point 1915 Red beacen near Mantee Blockade Shoals beacen 1909 Bedie Island Light House 1909 Flag en end of wharf Broad Creek 1909 Bintin Island, tripod Shed on outer end of Burnside wharf (same as Mantee Beacen 1909) Channel bush on dredged cut Red Beacen Near Mantee Flag Buck 1909 Thag Pare 1909 Thag Buck 1909 Thag T	Ashby 1915, tripod. Ashby 1909, small flag. Ballast Point 1915 Red beacen off Powell Peint Red beacen near Mantee Red beacen 1909 Red Beacen 1909 Red Beacen near Rantee Red Beacen Near Mantee Red Beacen Near Mantee Red Beacen Near Mantee Red Beacen Near Mantee Red Beacen Red Flag Red	### Character	Character			

SURVEY OF CROATAN AND ROANCKE SOUNDS, NORTH CAROLINA.

LIST OF GEOGRAPHIC POSITIONS TO ACCOMPANY HYDROGRAPHIC SHEET NO. H.

	Name		Character	btud	· '	Lon					
ж °	Hav	٥	Triped on Big Island 1915	٧.	35	49	m	75	40	m	
~	Hog	(3)	Hog 1915	٧.	35	48		75	37		
	Hos	. 0	Chimney of white house of wharf	v.	35	50	742.	75	39	1327.	
•	Hot		Het 1915	٧.	35	58	68.4	75	39	79.4	i
	Isle	0	Tripod signal on Island	v.	35	54	1335.	75	36	1397.	
5	It	0	Flag		35	51	1382.	75	39	1471.	
	Kit	(a)	Kittyhawk 1915	٧.	36	02	935.6	75	44	474.5	
	Life a		Nags Head L.S.S. 1909 (V)(1915 is	V)	35	55	1759.9	75	36	812.9	
	Lunch	③	Lunch 1915	v.	35	59	1198.6	75	41	1344.8	
	Man	(3)	Manns Point 1915	٧.	35	58	540.	75	41	1466.3	
	Mar		Marsh 1915	(V)	35	47		75	43		
	Mill		Will Creek 1909	V.	35	49	1321.1	75	37	11.3	
	Nag		Hags Head 1909	٧.	35	56	1360.1	75	37	1216.4	
	New		New 1915 on Weir Point	V.	35	55	932.6	75	43	603.4	
	Noke	(4)	Roanoke 1915	٧.	35	5 5	1511.1	75	40	1249.9	
	North	⑳	North Point 1915	٧.	36	01	637.1	7 5	43	1036.6	
	North base,	Δ	Bodie [‡] s Island North Base 1909	v.	35	58	1768.4	75	35	1312.	
	011	0	Large white oil tank on wharf	v.	36	03	766.	75	42	212.	
	Peg	0	Topographic peg.		35	46	1260.	75	44	130.	-
	Pig	0	11 01		36	02	1563.	75	42	471.	
	Pole	0	Flag pole near Wanchese railway		35	50	243.	75	39	408.	
• •	Pork		Perk Point 1909	٧.	35	54	209.4	75	41	1319.4	ļ
	Pow		Pewell Point 1915(built on tree)	٧.	36	04	555.4	75	47	1279.3	
	Ral		Raleigh 1909	٧.	35	56	684.2.	75	42	487.2	
	Red	(3)	Redstone 1909	٧.	35	54	1381.5	7 5	46	112.1	
	Roan		Roanoke Marshes Light House 1909	٧.	35	48	1213.7	7 5	42	107.2	

SURVEY OF CROATAN AND ROANOKE SOUNDS, NORTH CAROLINA. LIST OF GEOGRAPHIC POSTIONS TO ACCOMPANY HYDROGRAPHIC SHEET NO. H.

	Name		Character			La	titude	Longitude			
	Rob	۵	Roberts Fishery 1915	٧.	35	56	161.2	75	46	1492.2	
	Rod	A	Roden 3	٧.	36	00	305,9	75	43	1163.3	
	Roon		Carroon Pinot 1915	v.	35	57	1031.	75	48	818.8	
	Sand	0	Sand Island Beacon	(V)	3 5	50	571.	75	40	206.	
	Shan	0	Chimney of fish shanty	٧.	35	53	628	75	37	14,	
	Sharp	A	Sharp (?)	(v)	3 5	45	1216.	75	43	1153 .	
	Shall	A	Shallbank 1915	٧.	36	03	694.7	75	44	718.4	
	Spire		Wanchese Church Spire 1909		35	50	1645.1	75	38	783.3	
	Spoon	0	Water signal (tripod style)	(V)	36	02	806.	75	47	997.	
	Stack	0	Smoke stack of Manteo Ice Plant	٧.	25	54	1234.	75	40	118.	
٠,	Tal.	0	Chimney of small fish house		35	48	588.	75	42	1096.	
	Tan	@	Croatan Light House 1909	٧.	35	56	1309.	75	46	1029,1	
	Te		Manteo Marshes 1909	٧.	35	5 3	807.3	75	38	190.	
	Vir	0	Virginia 1909	v.	35	49		75	43		
	Var	0	Wharf in Kittyhawk Bay		36	02	1832.	75	42	1242.	
	West	(4)	North Hest 1909	٧.	35	56	209.1	7 5	43	1032.	
	White	0	Wanchese White House 1909		35	50	823.6	75	37	517.3	
	Wit	6	Wither (water signal tripod styl	•)	35	5 9	900.	75	46	1234.	
	Wreck	0	Wreck Hill 1909	٧.	35	51	1013.1	75	35	998.2	

AIDS TO NAVIGATION.

Rid	Location		Lati	Longitude				
Black Spar #1.	Entrance to Currituek.	36	02	120 m	75	_	m 299	
Black Spar #3	t H H	36	02	1179	75	45	805	
Red beacon	Off Powell Point	36	04	586	75	47	1292	
Black Can #9	Head Of Croatan Sound	35	57	1710	75	47	864	

AIDS TO NAVIGATION.

Loc	Location					L	ati	tude	Longitude			
Red beacon N.W.	of Reanol	te Isl	and.		,	38	57	836	78	45	6 0 0	
Red nun # 2 Off	N.W.Point	Reanc	ke I	sland	;	35	56	1398	75	43	983	
Creatan L.H. Head	of Creats	n Sou	nd	*	;	35	56	1309.	75	46	1029.1	
Black spar #7 "	n n	Ħ			;	35	56	1182	75	46	1129.	
Red Spar #6 Char	mel Of Cre	atan	Soun	đ		35	55	1167	75	45	523	
Black Spar #5 **	•	Ħ	Ħ		:	35	55	252	75	45	193	
Red nun #4 w	n		99		8	35	54	1383	75	44	398	
Black can #3 #	π	Ħ	Ħ		8	35	54	331	75	43	874	
Black beacon	# .	П	Ħ	,	3	35	53	1820	75	43	483	
Red nun #2 w	#	Ħ	**		3	5	49	112	75	42	794	
Roanoke Marshes, Mo Light House	uth of Cre	utan :	Sound	l	3	5	48	1213.7	7 5	42	107.2	
999 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	H H	Ħ	# .		3	5	48	602	75	42	195	
Red & Black spar	# #	u	Ħ		3	5	47	1680	75	41	1067	
Red nun #2 App	proach to (Creats	un So	und	3	5	46	1296	75	39	1448	
Red Spar #4 Sou	uthern exti	remity	of	Roanoke	Sd.	35	47	673	75	38	392	
Black Spar #1	π	Ħ	# ,	Ħ	# 3	5	47	664	75	37	728	
Red spar #6	W	Ħ	#	Ħ	# 3	5	47	1461	75	36	1378	
Wooden frame, Inne	er turn of	Shall	owba	g Bay	3	5	54	1123	7 5	39	1207	
Red beacon Entr	ance to Sh	allow	bag I	Bay.	3	5	55	157	75	39	33	
Bush Dred	ged Channe	1			35	5 !	55	1561	75	89	505	
Red beacon, Head o	f Dredged	Chann	e l		35	5 :	56	866	75	39	864	

Descriptive Report to accompany Hydrographic Sheet No. 3772.

The work done by party in 1917 was only additional work to complete survey of 1915.

- 1. The marshy islands in Croaten Sound to southward and westward of Ashby Harbor have entirely disappeared, sufficient number of lines were run over and along side locations of same to verify their disappearance.
- 2. Several attempts were made to run lines through channel from southward on east side of Collington Island without success; the continous northly winds during months of December made low water in this locality. Two feet of water is about all that can be carried through this channel at southern entrance.
- 3. The eastern and inner part of Collington Bay or Harbor could not be developed on account of shallow water and heavy grass.
- 4. A narrow spit, partly awash at low water, runs out to southward and eastward from extreme southern point of Collington Island.
- 5. Lines were run as near as possible according to blue pencil lines indicated on bromide sheet furnished by the office. The lines were plotted on two separate pieces of boat sheet, and work in Kittyhawk Bay on bromide sheet. It appears that soundings taken in 1917 are generally shoaler than those of 1915- probably due to continuous northerly winds in December 1917. (tide reductions not yet applied to this work).

The smooth sheet for this work is in the office.

Respectfully.

Mate, Coast & Geodetic Survey.

Oscar MStraube

CROATAN and ROANOKE SOUNDS, N.C. Statistics for Hydrographic Sheet No.3772

			• •	•			
Date	Letter	Statute miles	Positions	Soundings	Vessel	Surveyed by	
May 26,1915	8.	38.25	152	1350	Launch 54	R.P.Eyman	
June 1,	ъ	30.25	129	1052	54	n n	
4 9 ⁷	c	29.00	109	889	" 54	Ħ	
· n 10	d d	34.00	141	1100	, #E 54	Ħ	
* 11	е	16.25	70	537	* 54	н	
n 12	. f	20.50	83	659	₩ # 54	11	
" 14	g	20.00	78	623	H 54	Ħ	
* 16	h	16.00	61	481	54	Ħ	
# 17	i	32.25	128	990	54	n	
" 18	k	43.00	161	1258	7 54	*	F 1
* 19	1	18.00	68	511	* 54	77	
* 22	m	12.50	47	358	* 54	11	
* 23	n	34.75	124	981	" 54	H	
" 24	0	32.25	120	863	* 54	*	
Jul y 28	p	37.50	139	1142	* 44	J.E.Marsh	
* 30	r	16.50	64	511	* 44	Ħ	
# 31	3	18.25	74	580	# 44	"	
Aug. 2	t	26.50	89	800	* 44	*	
# 3	u	15.75	63	566	* 44	Ħ	
* 5	. W	46.25	169	1424	· # 44	Ħ	
7 6	ж.	30.00	101	844	" 4±	Ħ	
* 7	y	22.00	69	582	" 44	#	
# 2 7	Z	30.00	127	9 22	" 44	R.P.Eyman	
, ^{tr} 28	a)	15.00	58	473	* 44	н	
" 30	b '	11.00	63	406	" 44	н	
Sept. 4	c†	16.75	65	529	" 44	Ħ	
7	d'	39.00%	142	1168	" 44	H ·	
" 8	. e'	35.00	121	981	* 44	#	
n 9	ę۱	43.75	161	1294	* 44	"	
" 10	g'	28.25	108	892	" 44	tt	
" 13	h '	32.75	126	1001	# 44	ft ft	
* 14	i'	19.00		634	" 44	17	
" 15	k'	29.75	121	905	* 44	er	
" 16	1'	32.00	124	1008	" 44	**	
" 17	m *	34.50	135	1088	" 44	Ħ	
7 20	n'	12.50	49	385	" 44	и	
" 2 4	0 •	15.20	72	511	* 44	ħ '	
Oct. 4	p.	2.25	11	74	" 44	Ħ	
" 13	r	32.25	166	1265	" 44	#	
" 14	s'	8.10	34	303	* 44	jı ,	
" 14	ť,	31.00	113	914	" 54	J.E.Marsh	
" 18	u'	24.70	101	752	" 54	#	
" 19	w *	17.70	6 8	627	" 54	**	
# 25	x ¹	47.75	151	1225	" 54	#	
# 26	y '	37.30	161	1186	# 54	R.P.Eyman	
" 27	, Z 1	47.00	173	1364	" 54		
" 29	a"	35.00	137	1038	7 54	J.E.Marsh	
Növ. 4	b"	28.25	123	956		#	
" 8	c#	19.38	147	235*	" 54 " 44	"	
" 9	d"	18.00	128	235¥ 18 7 ≉	" 44 " 54	"	
* 11	e"	38 .75	164	1212	" 54 " 54	#	
" 12		28.25	107	827	54 * 54	. #	
Total	52 ^{fr}	1397.88	5571	42,481	54	EX .	1
				10,101			1

* Drag work

Statistics Sheet No. 3772.

	Da te	Letter	Volum	Positions	Soundings	Miles	Vessel	•
Nov.	26	a	1	34	239	6.0	Læunch	54
Ħ	27	ъ	1	31	220	5.3	11	Ħ
11 .	28	C	1	63	563	14.0	11	II
Dec.	4	đ	1	114	564	11.5	11	11
tt	20	e	2	79	596	9.6	Ħ	11
. 11	22	f	2	31	208	4.7	tt	11
11	24	£	2	122	9 08	22.4	Ħ	11
Nov.	3 0	a	ĩ	115	961	20.5	tt	56
Dec.	1	ъ	1	28	387	4.5	11	11
11	3	C	1	90	625	11.0	11	11
11	24	đ	2	76_		16.5	tt	11
Tota:	ls			783	5800	126.0		

ADDRESS
U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C.

REFER TO NO-

5-VEC

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 6,1918.

CHARTS (H)

LIBRARY

Place with descriptive report.

of hydrographic sheet No. 377 2

Division of Hydrography & Topography:

Division of Charts:

Tidal reductions have been approved in 21 volumes of sounding records for

HYDROGRAPHIC SHEET 3772

Roanoke and Croaton Sounds, N.C. O.W.Ferguson in 1915

Plane of reference is Mean low water, reading

ft'.

4.5 on tide staff at Nags Head, N.C.
3.4 " " " Croaton Light, "
3.1 " " Burnside wharf,
Pork Point, "

L. P. Shidy

Acting Chief, Section of Tides and Currents.

U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C.

REFER TO NO.

5-VEC

HYDROGRA HY ETC., (HT)

CHARTS (H)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LIBRARY

WASHINGTON

April 16 hydrographic sheet No. 3772

Diaming Section.

Division of Hydrography and Topography: No

Division of Charts:

Tidal reductions have been approved in 4 volumes of Sounding records for

HYDROGRAPHIC SHEET 3772 (additional)

Roanoke, Albemarle and Croatan Sounds, N.C. E.E. Smith in 1917

Plane of reference is Mean low water, reading

2.6 ft. on tide staff at Nags Head, N.C.

Acting Chief, Section of Tides and Currents.

L. P. Shidy

i ;

Hyd. Sheet no. 3772 Croatan and Koanske Sounds, N. C.

Positions protested and soundings plotted by Fuld Posty. Inhed and verified by S. of. Rosenberg.

This survey was uniformly good. The area was well developed, and the crossings, with the three exceptions noted on the sheet in fencil, were good. The records were carefully kept. In borifying it was assumed that the positions were correctly protracted and only those that appeared doubtful were checked and corrected when found in evior. The protracting and plotting were carefully done, but the soundings were klotted in feet and fractions, contrary to the instructions given in paragraph 338 of the general Instructions for Field Work which provide that fractions up to .8 of a foot shall be dropped and those of .8 or more shall be considered a whole foot, except in entired The work done on c" and d" days was not plotted

by the field party, so it was attended to by the verified. The werlages with Hyd. Sheets 3732 and 3000 were compared and found to agree fairly well, although a few of the soundings from Hyd. Sheet 3000 fell on an island when transfirmed to this sheet.

S. L. Rremberg.

Somdnigs in feet.

Hyd. Sheet 3772 Supplementary Development. (position numbers in green & red)

That portroi of this additional work done by the chief of party was not up to the standard expected by this office. It appears as if there was too great a desire to hvory in order to get through even at a sacrifice of accuracy. (hu. Stranke's work was much better)

Several positions used on "d" (blue) day were shown on the book sheet, but no explanation of any sort of the manner of locating them could be found, and it was necessary to transfer them from the book sheet, which was badly distrited, to the finished sheet. In addition to this fortime 52 to 75 "d" (the) day were so wratic that it was necessary to reject them - some of the crossings were four, in other places the time and distance didn't correspond, and several of the forthers were absolutely wrong and could not be corrected by in anyway except by wild guissos.

Line 97 to 102 "a" (blue), shrowing from 1 to 6 feet of water, fell between a other lines of soundings showing up to ten feel of water and after a personal interview with his Stranke

was rejected.

Signal Dan Seemed to give the recorder a great deal of trouble and it was referred to as Dan, Ban, Dann and Band at various times. They were all accepted as being

the same signal upon Mr. Stranke's recommendation.

most of this additional work appeared to be from one to two feel shooler than the original work of 1915.
This was probably due to the continuous, winds in december 1917.

from A Sun to O Black (From extreme southern from of collington Island, running south and east), was indicated on the boat sheet and enectioned in the description of report, but no exact location was given in the sounding report, but no exact location was given in the sounding report, but was necessary to transfer it from the records and it was necessary to transfer it from the

S. L. Rosenberg. March 1919. that chiefe of parties be impressed with the necessity for accuracy nather than speed. One had sounding should detract more from a man's efficiency record than several detract more from a man's efficiency record than several days time saved should add to it.

a description of all signals used in a survey, together with the manner of location, should be included in the with the manner of location, should be included in the top-description report. If a signal is transferred from the top-description sheet, it should be so stated; if it is determined ognaphic sheet, it should be given in the sounding reads by cuts, the angles should be given in the sounding reads on ongle book. There should be no necessity for gresswork or angle book. There should be no necessity for gressworks on the part of the office draftsman.

3. The low water curve has been overlooked in the notes stamped on hydrographic sheets. This curve is frequently as important as the 6ft. curve and the following addition should be made to the curve note:

The low water curve is shown thus:

J. L. Rosenberg.